



US00D963717S

(12) **United States Design Patent** (10) **Patent No.:** **US D963,717 S**
Shimamoto et al. (45) **Date of Patent:** **** Sep. 13, 2022**

(54) **CUTTING INSERT**

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PAUL HORN GMBH, Tuebingen (DE)

(**) Term: **15 Years**

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Related U.S. Application Data

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29, 2019, now Pat. No. Des. 931,916.

(30) **Foreign Application Priority Data**

Oct. 1, 2018 (JP) 2018-021408
Oct. 1, 2018 (JP) 2018-021409
(Continued)

(51) **LOC (13) Cl.** **15-03**

(52) **U.S. Cl.**
USPC **D15/139**

(58) **Field of Classification Search**
USPC D15/124–144; D8/70, 90, 98, 120
(Continued)

(56) **References Cited**

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Primary Examiner — Khawaja Anwar

(74) *Attorney, Agent, or Firm* — Faegre Drinker Biddle &
Reath LLP

(57) **CLAIM**

The ornamental design for a cutting insert, as shown and
described.

DESCRIPTION

FIG. 1 is a front view of a cutting insert in accordance with
a first embodiment of the present design;
FIG. 2 is a rear view thereof;
FIG. 3 is a right side view thereof;
FIG. 4 is a left side view thereof;
FIG. 5 is a top view thereof;
FIG. 6 is a bottom view thereof;
FIG. 7 is a first perspective view thereof;
FIG. 8 is a second perspective view thereof;
FIG. 9 is a referential perspective view showing the state in
use of the cutting insert attached to the holder by fixing
member, for cutting a work piece;
FIG. 10 is a front view of a cutting insert in accordance with
a second embodiment of the present design;
FIG. 11 is a rear view thereof;
FIG. 12 is a right side view thereof;
FIG. 13 is a left side view thereof;
FIG. 14 is a top view thereof;
FIG. 15 is a bottom view thereof;
FIG. 16 is a first perspective view thereof;
FIG. 17 is a second perspective view thereof;
FIG. 18 is a referential perspective view showing the state
in use of the cutting insert attached to the holder by fixing
member, for cutting a work piece;
FIG. 19 is a front view of a cutting insert in accordance with
a third embodiment of the present design;
FIG. 20 is a rear view thereof;
FIG. 21 is a right side view thereof;
FIG. 22 is a left side view thereof;
FIG. 23 is a top view thereof;
FIG. 24 is a bottom view thereof;
FIG. 25 is a first perspective view thereof;
FIG. 26 is a second perspective view thereof; and,

(Continued)

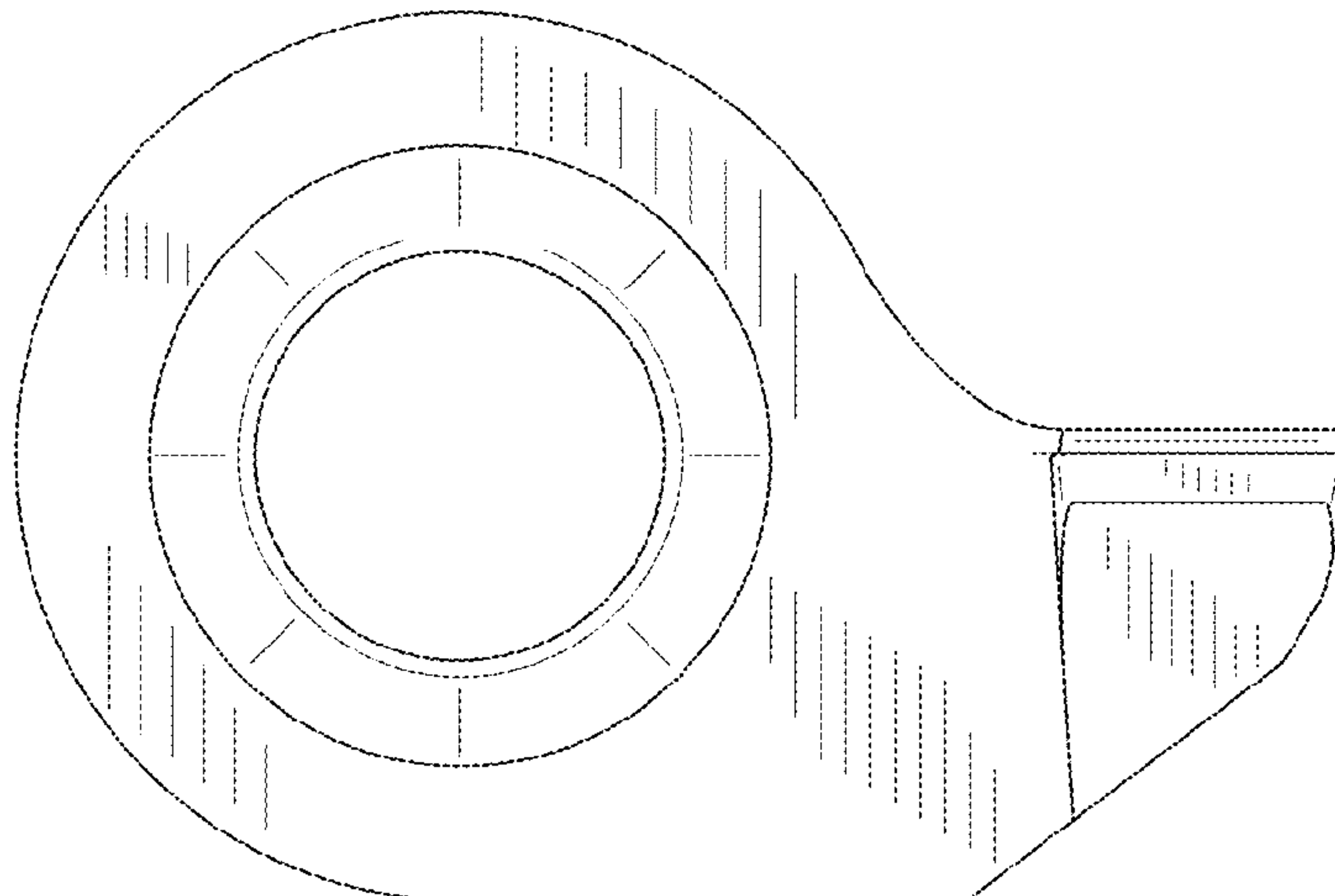


FIG. 27 is a referential perspective view showing the state in use of the cutting insert attached to the holder by fixing member, for cutting a work piece.
The broken lines in the referential perspective view depict unclaimed environmental subject matter.

1 Claim, 14 Drawing Sheets

(30) Foreign Application Priority Data

Oct. 1, 2018	(JP)	2018-021410
Oct. 1, 2018	(JP)	2018-021411
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Oct. 1, 2018	(JP)	2018-021413
Oct. 1, 2018	(JP)	2018-021414
Oct. 1, 2018	(JP)	2018-021415

(58) Field of Classification Search

CPC B23C 2200/0411; B23C 2200/0416; B23C 2200/0433; B23C 2200/164; B23C 2200/361; B23C 2210/0457; B23C 5/006; B23C 2200/168; B23C 2210/163; B23C 2226/125; B23C 5/10; B23C 2200/081; B23C 2200/087; B23C 2200/161; B23C

2200/206; B23C 2210/02; B23C 2210/03; B23C 2210/166; B23C 2210/50; B23C 2226/315; B23C 5/2208; B23C 5/2472; B23C 2200/0477; B23C 2200/0483; B23C 2200/083; B23C 2200/121; B23C 2200/362; B23C 2210/0428; B23C 2210/0435; B23C 2210/16; B23C 2220/36; B23C 2220/44; B23C 2240/08; B23C 2250/12; B23C 2270/06; B23C 5/2204; B23C 5/2213; B23C 5/2247; B23C 5/2427; B23C 2200/0422; B23C 2200/08; B23C 2200/086; B23C 2200/123

See application file for complete search history.

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FIG. 1

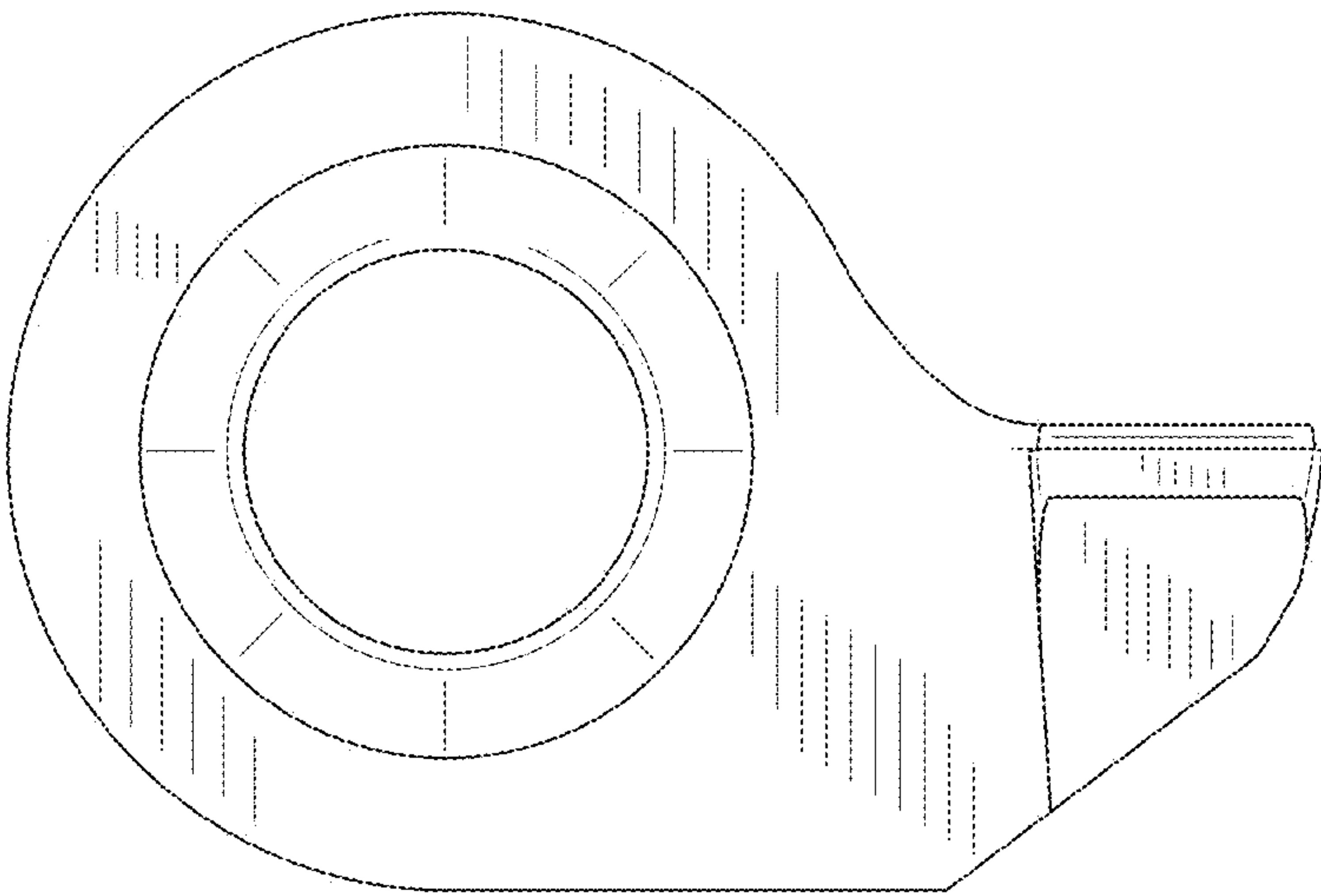


FIG. 2

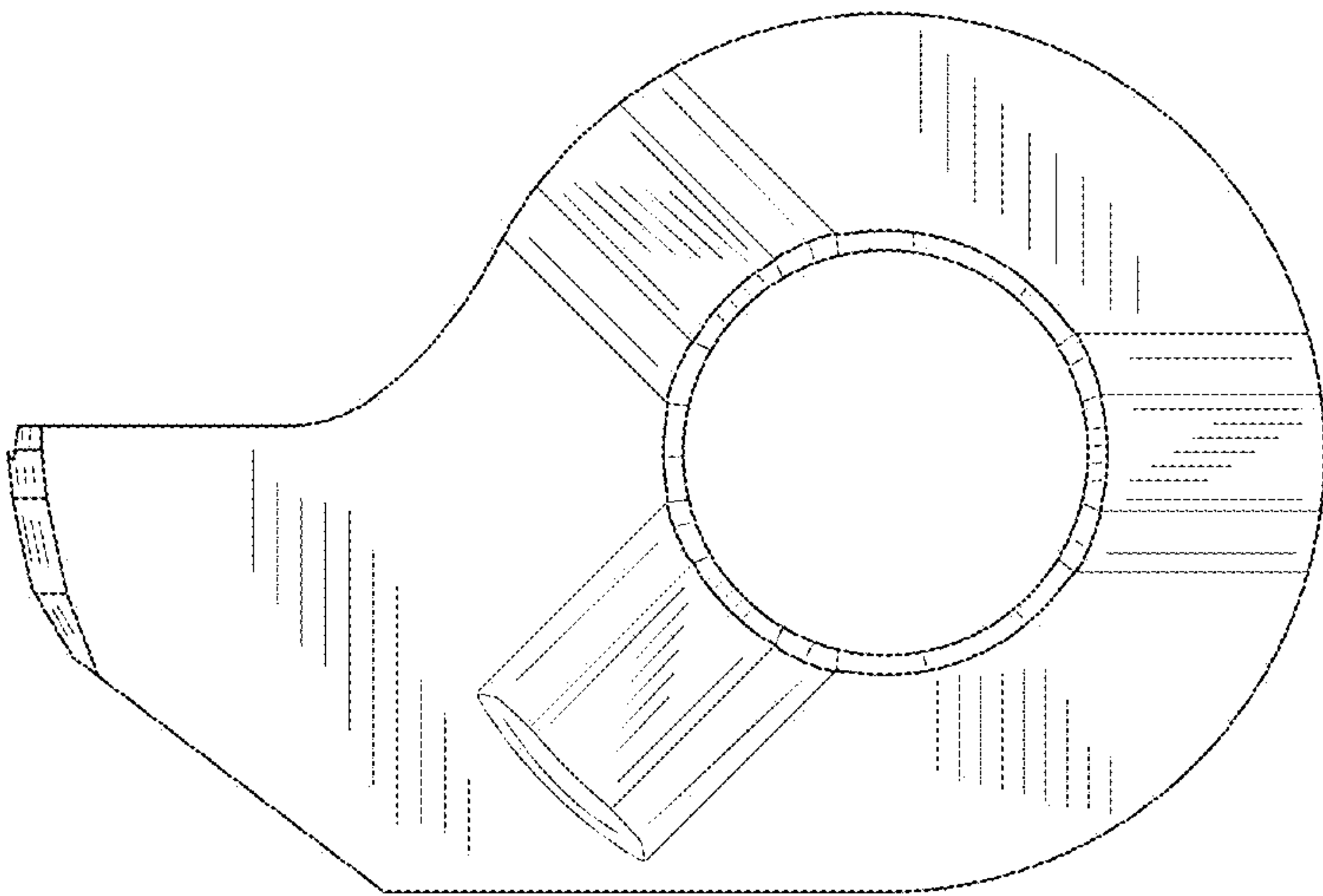


FIG. 3

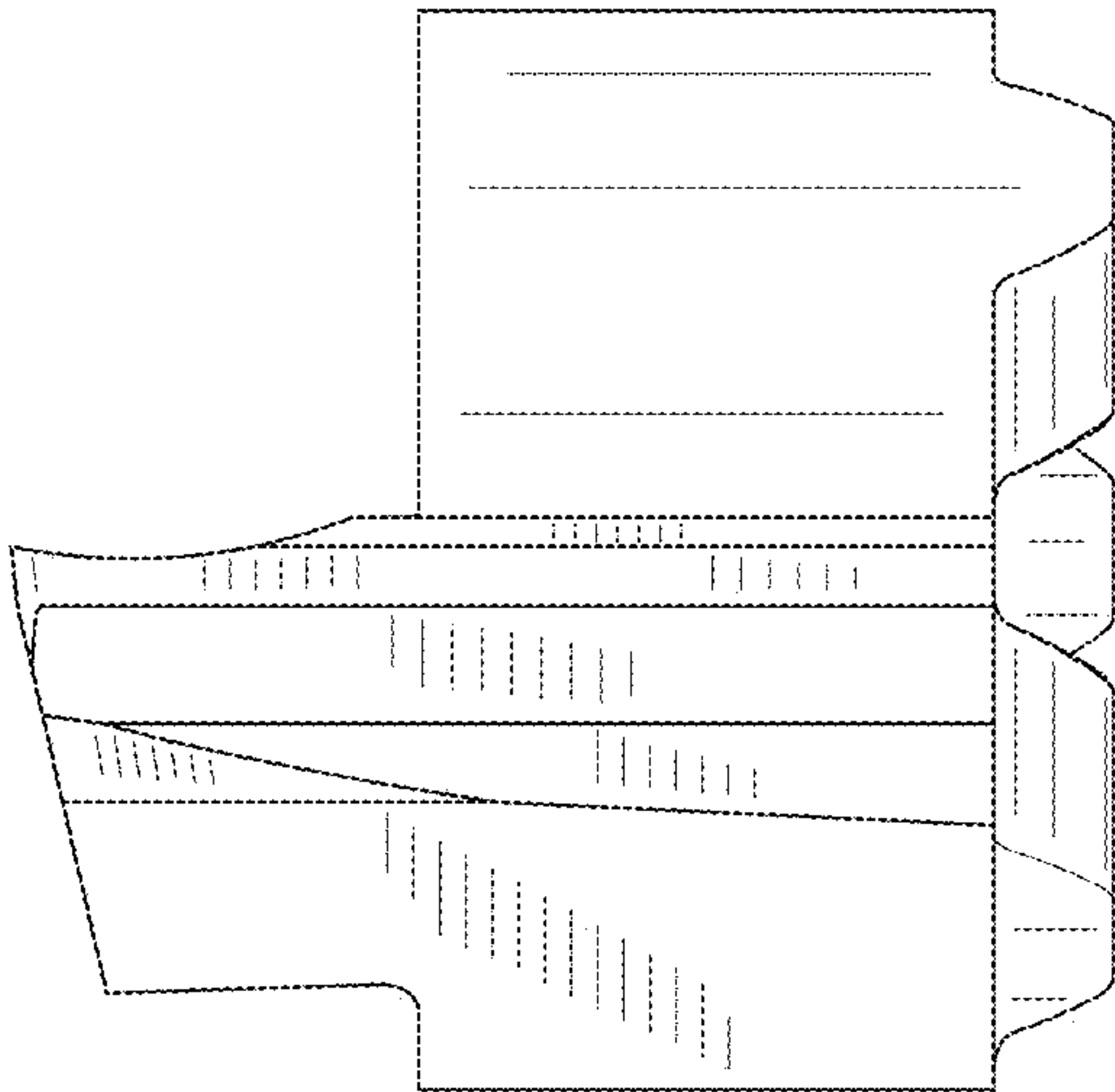


FIG. 4

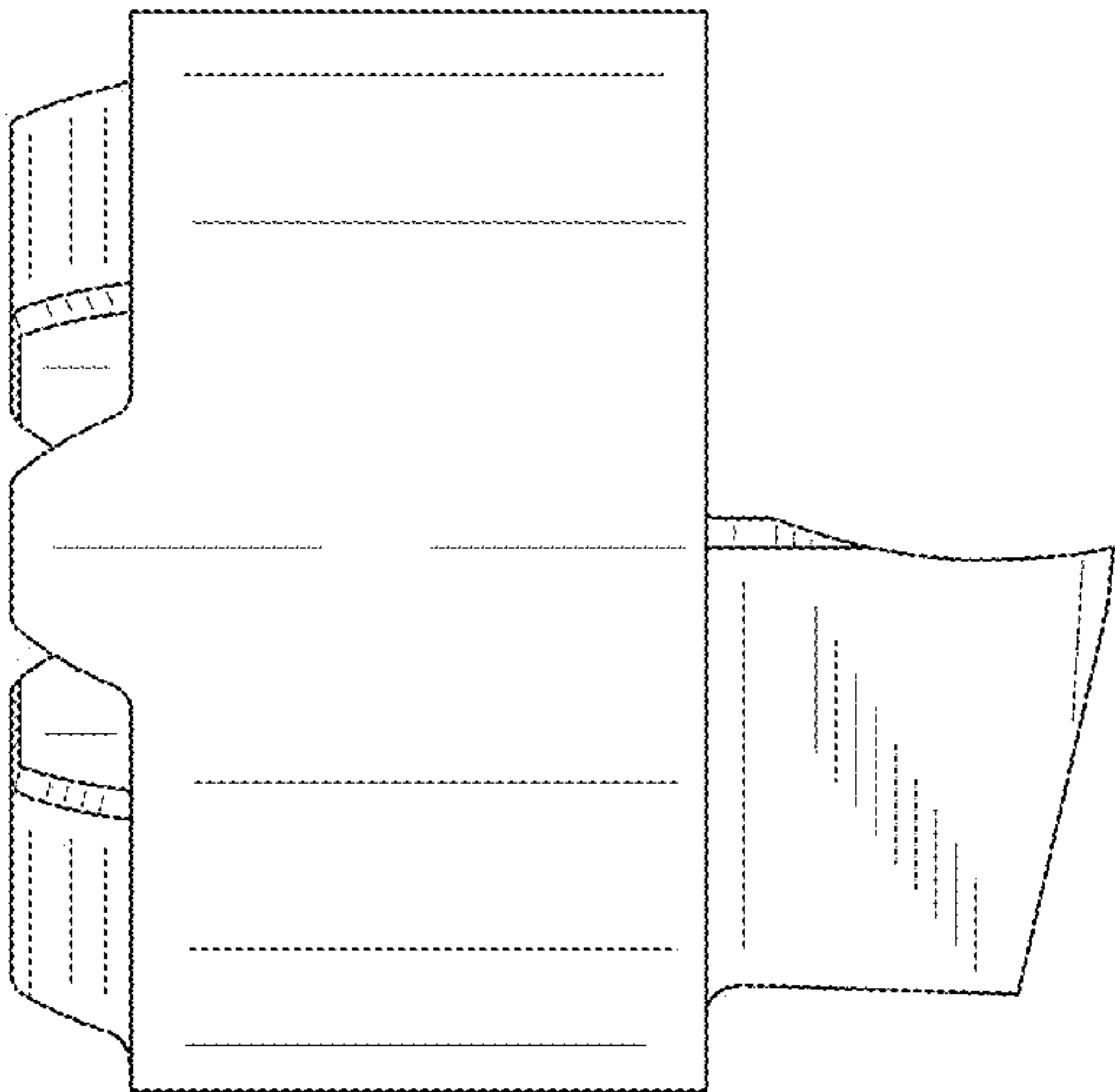


FIG. 5

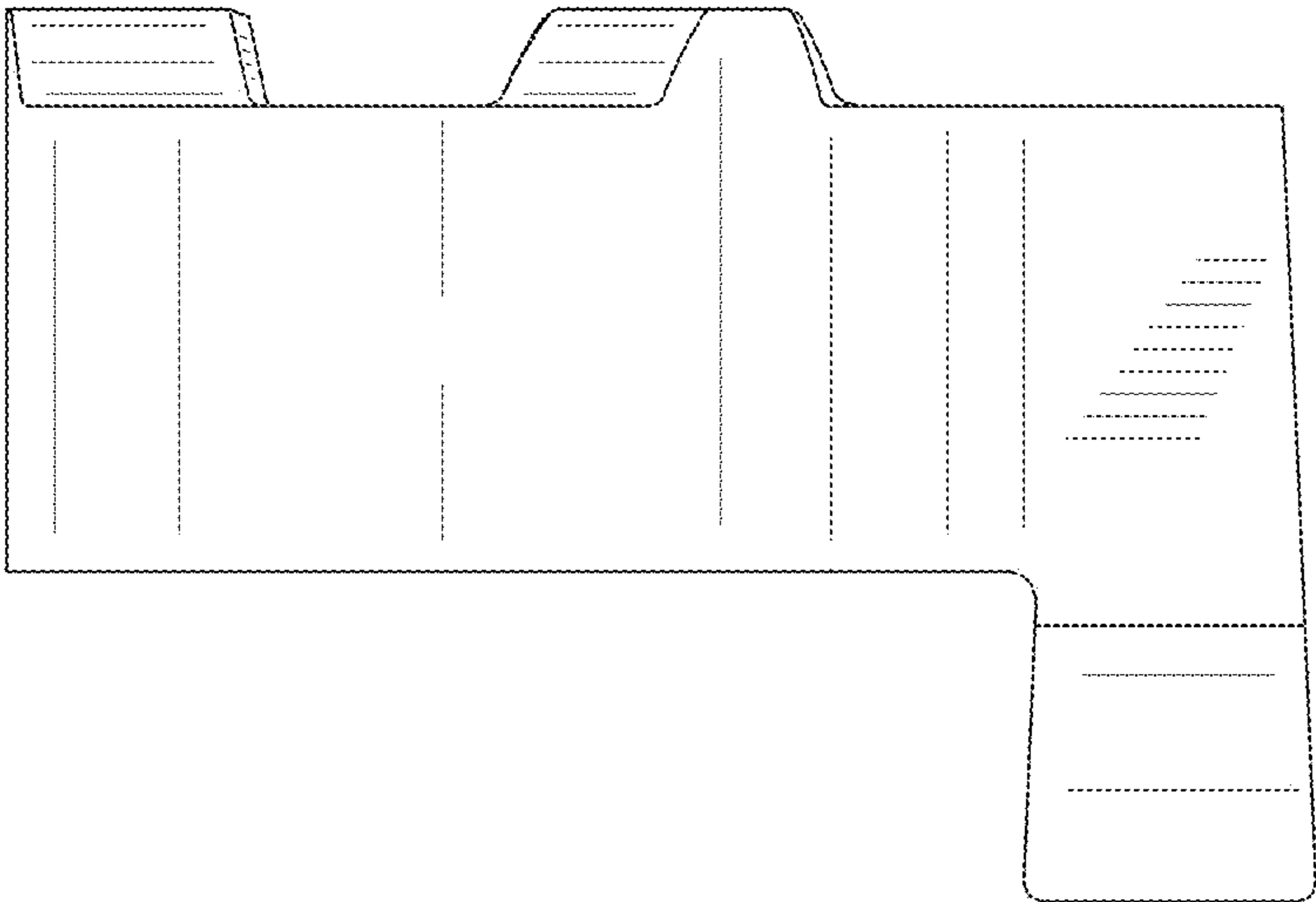


FIG. 6

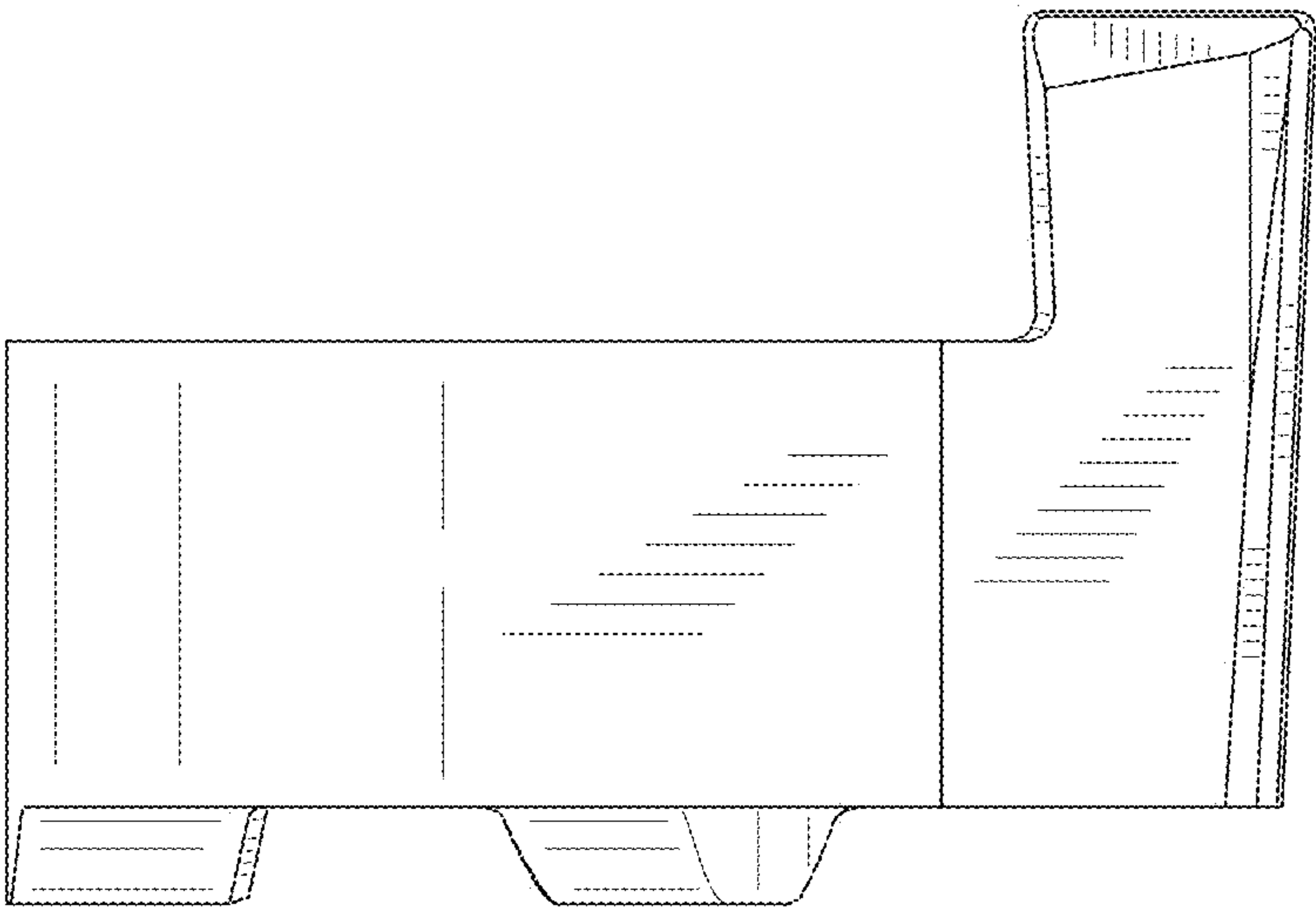


FIG. 7

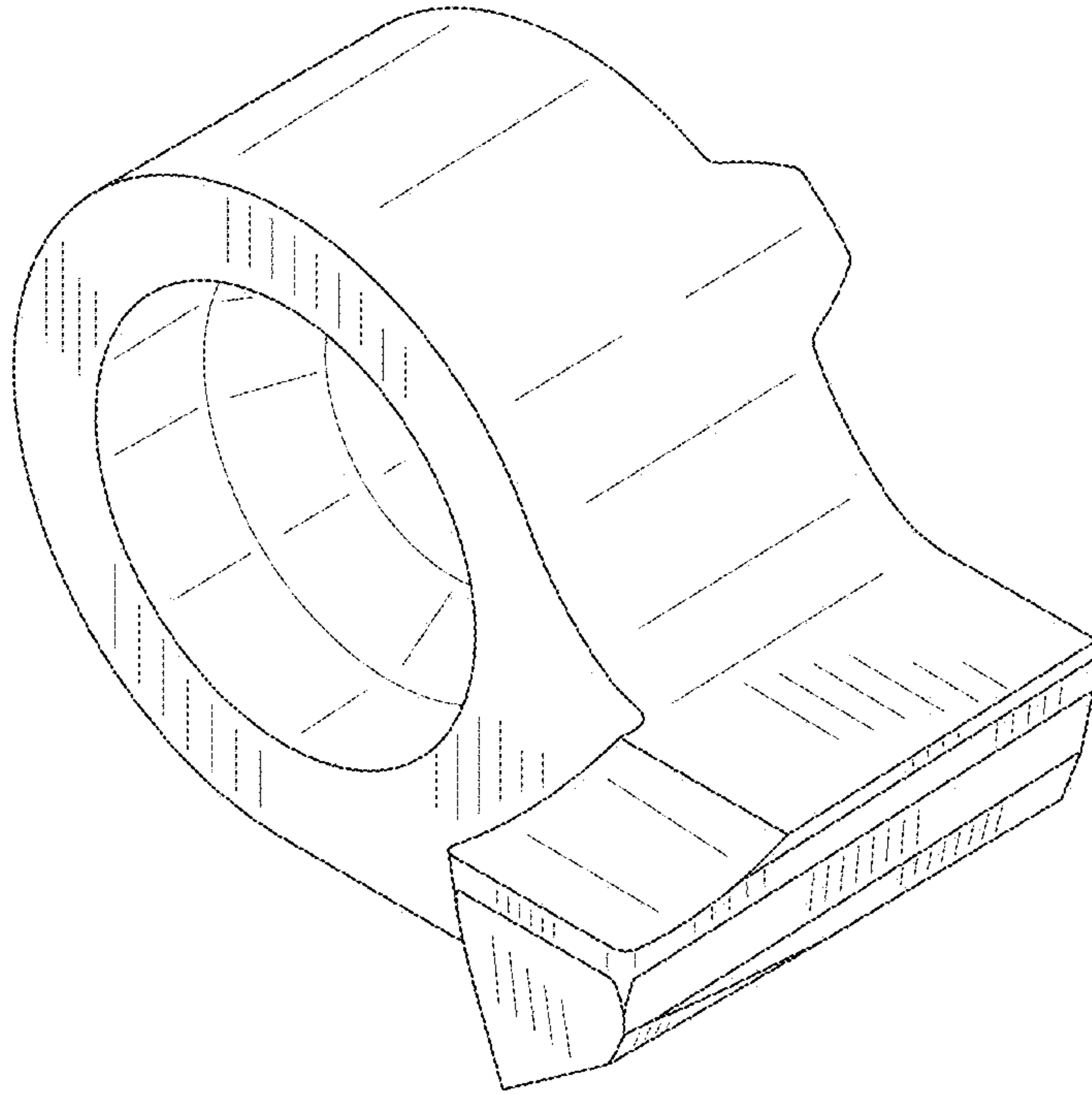


FIG. 8

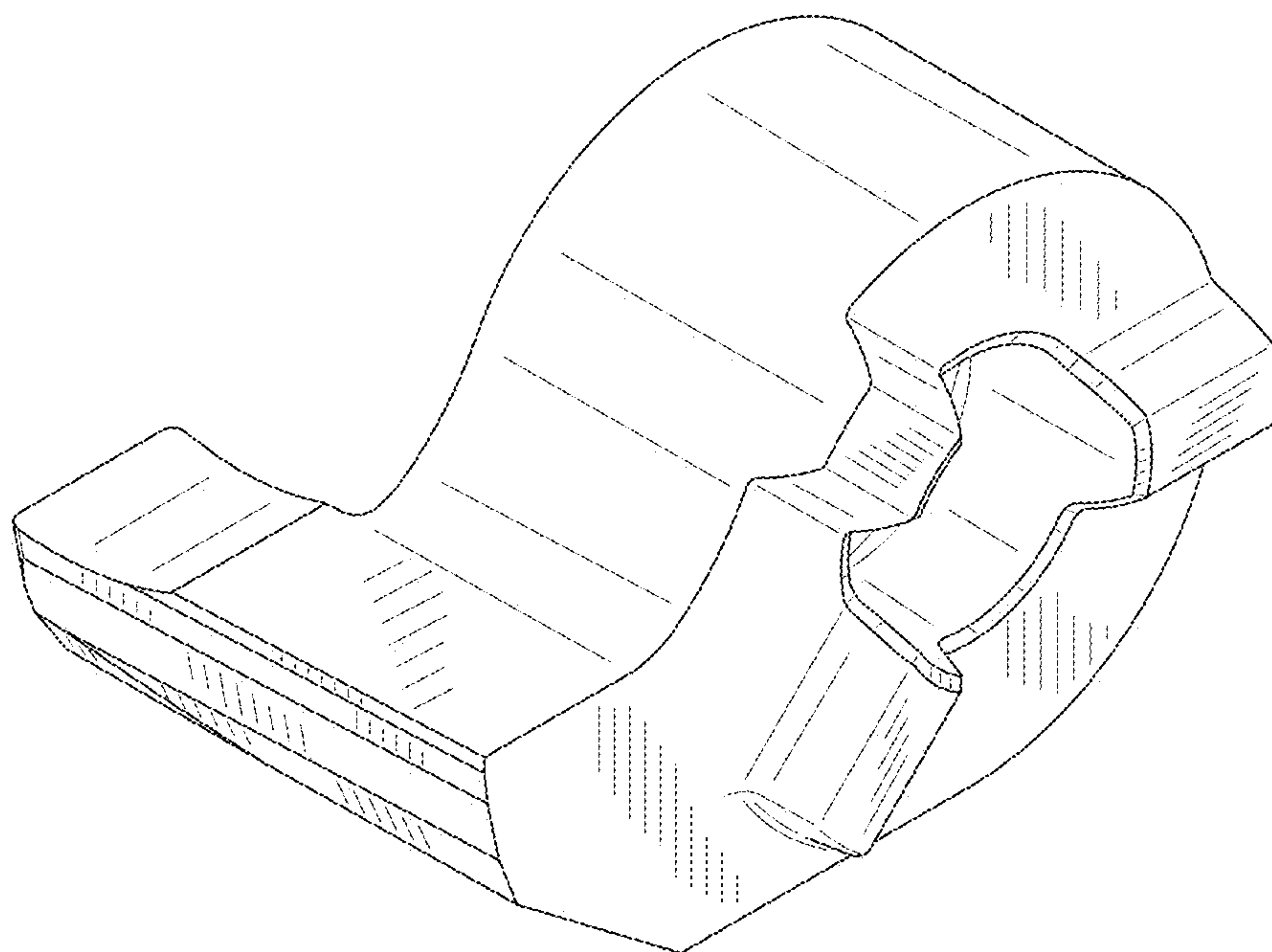


FIG. 9

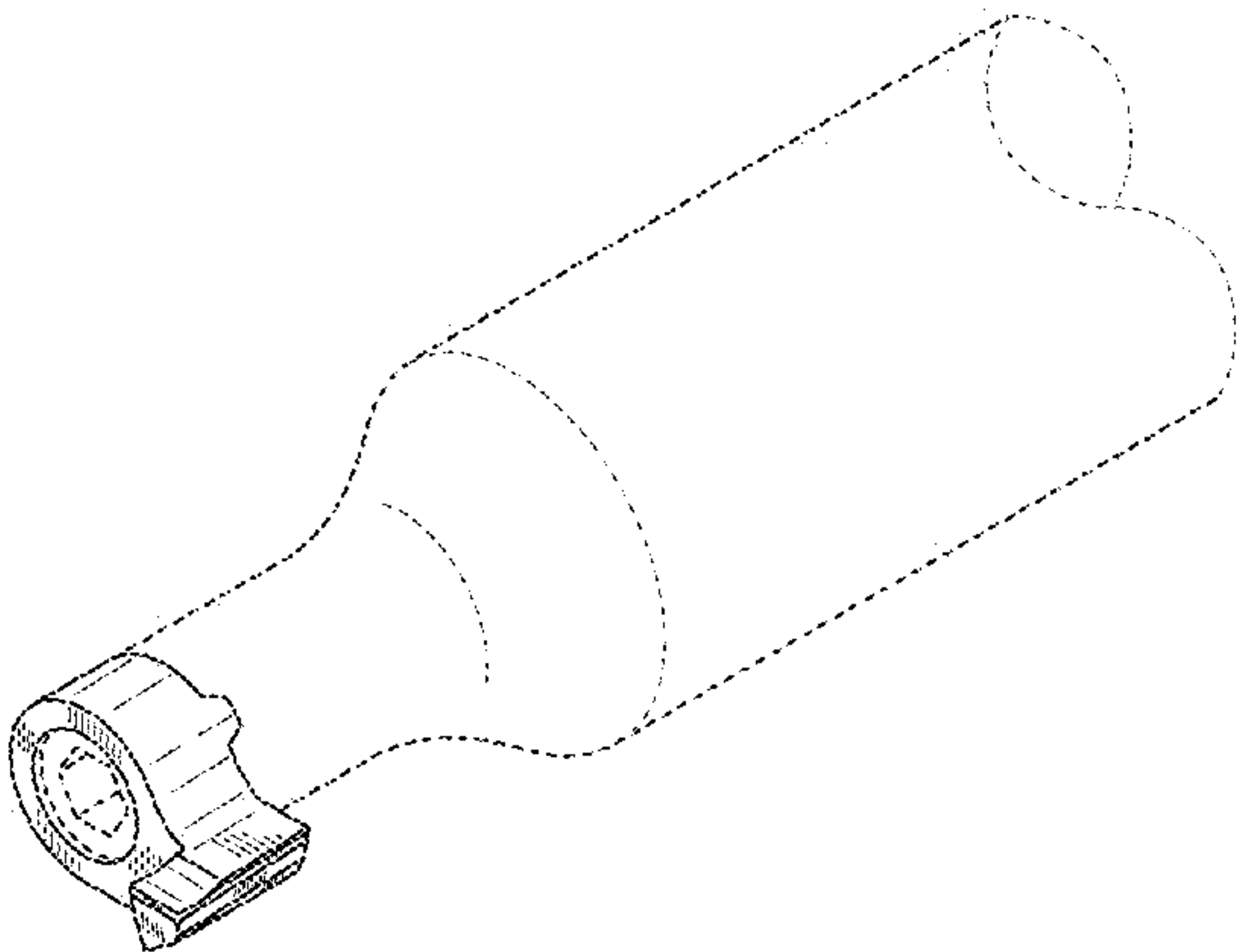


FIG. 10

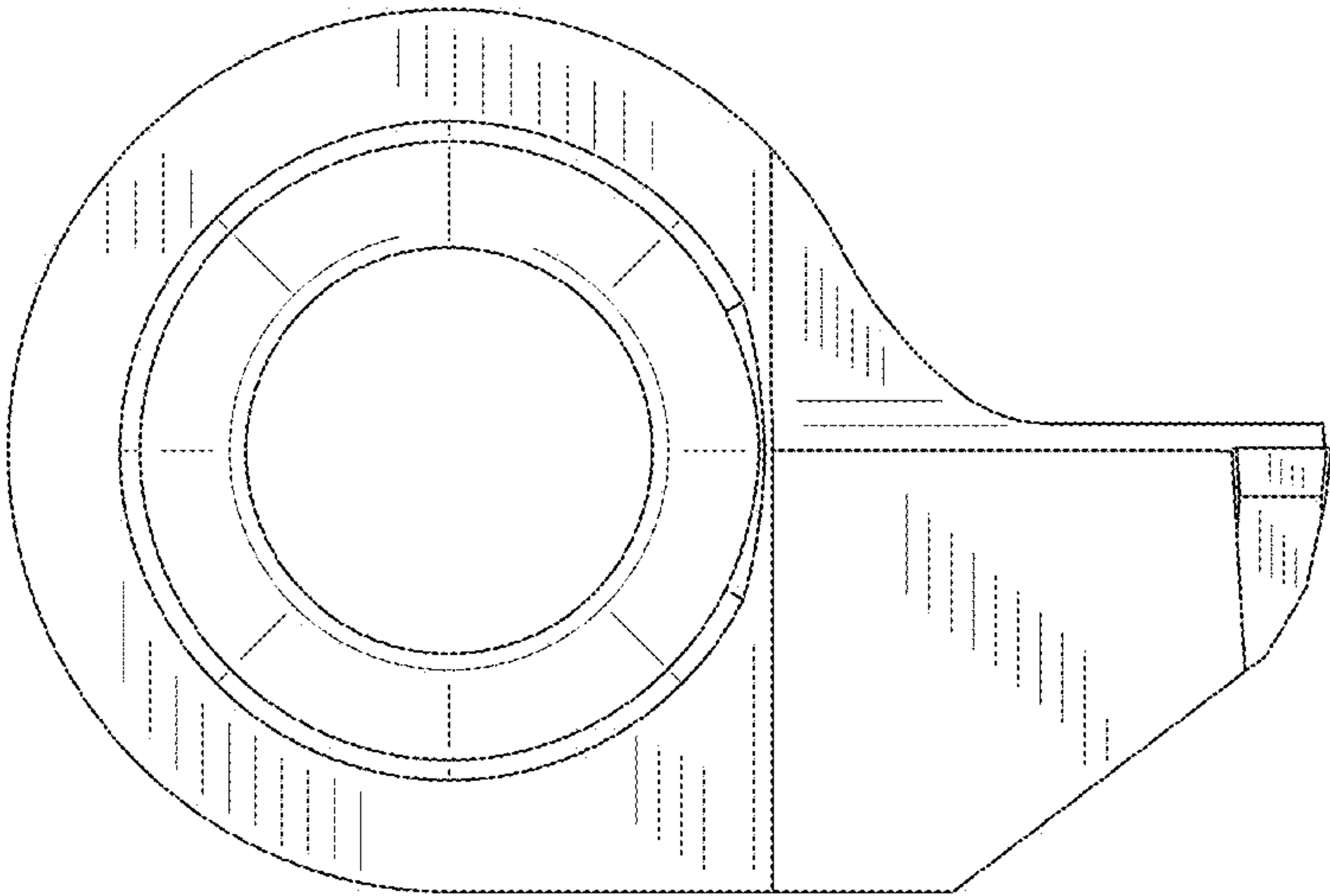


FIG. 11

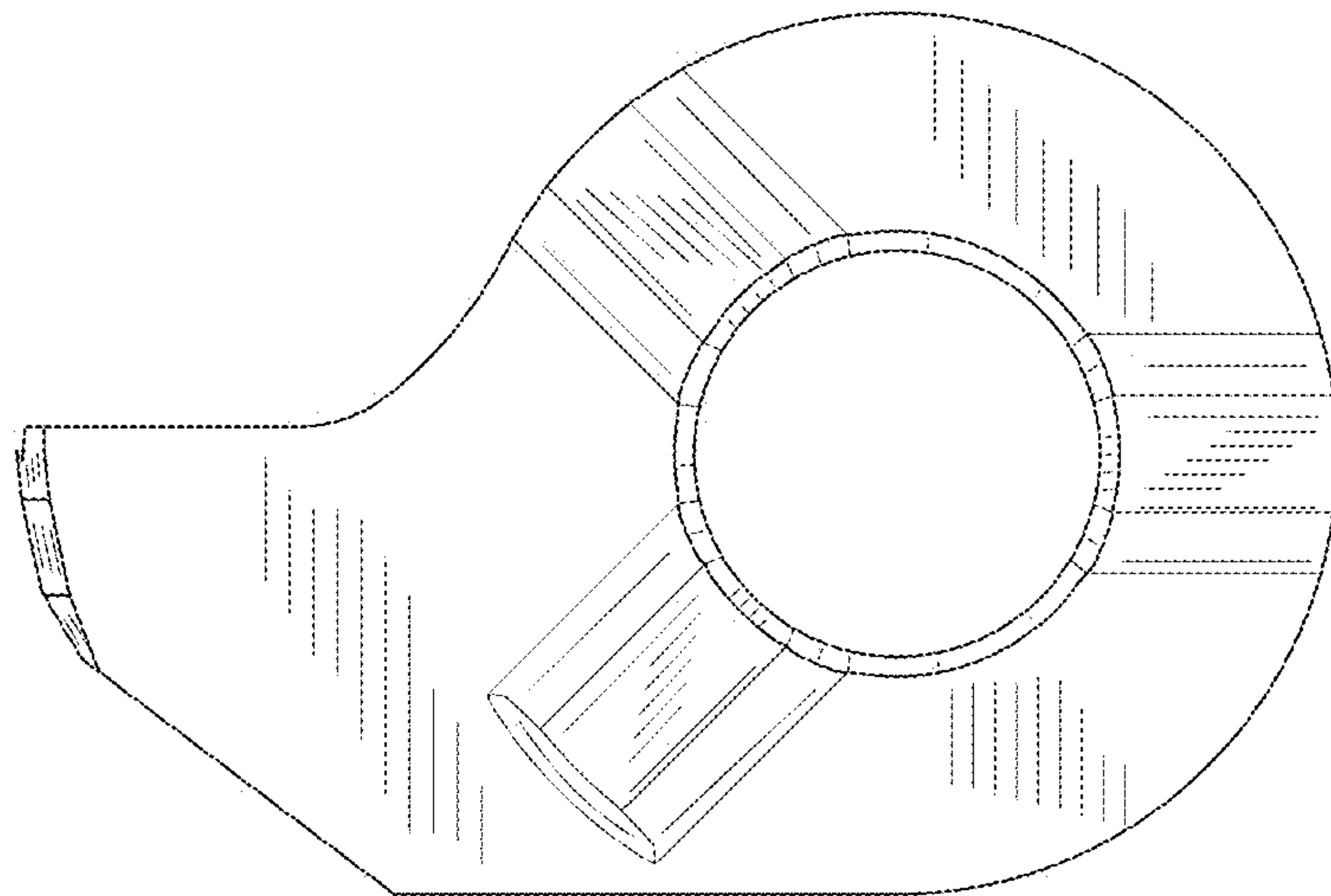


FIG. 12

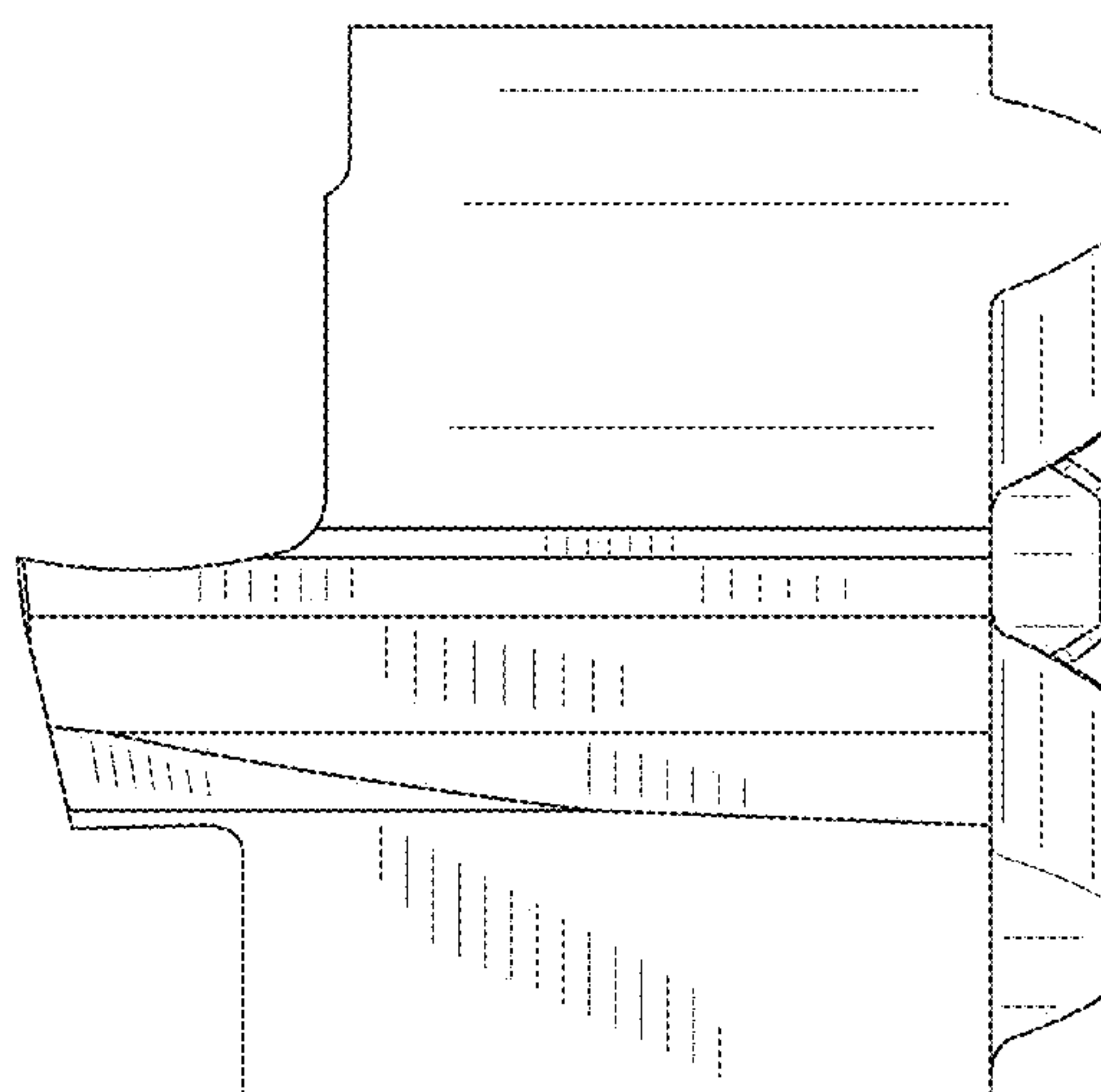


FIG. 13

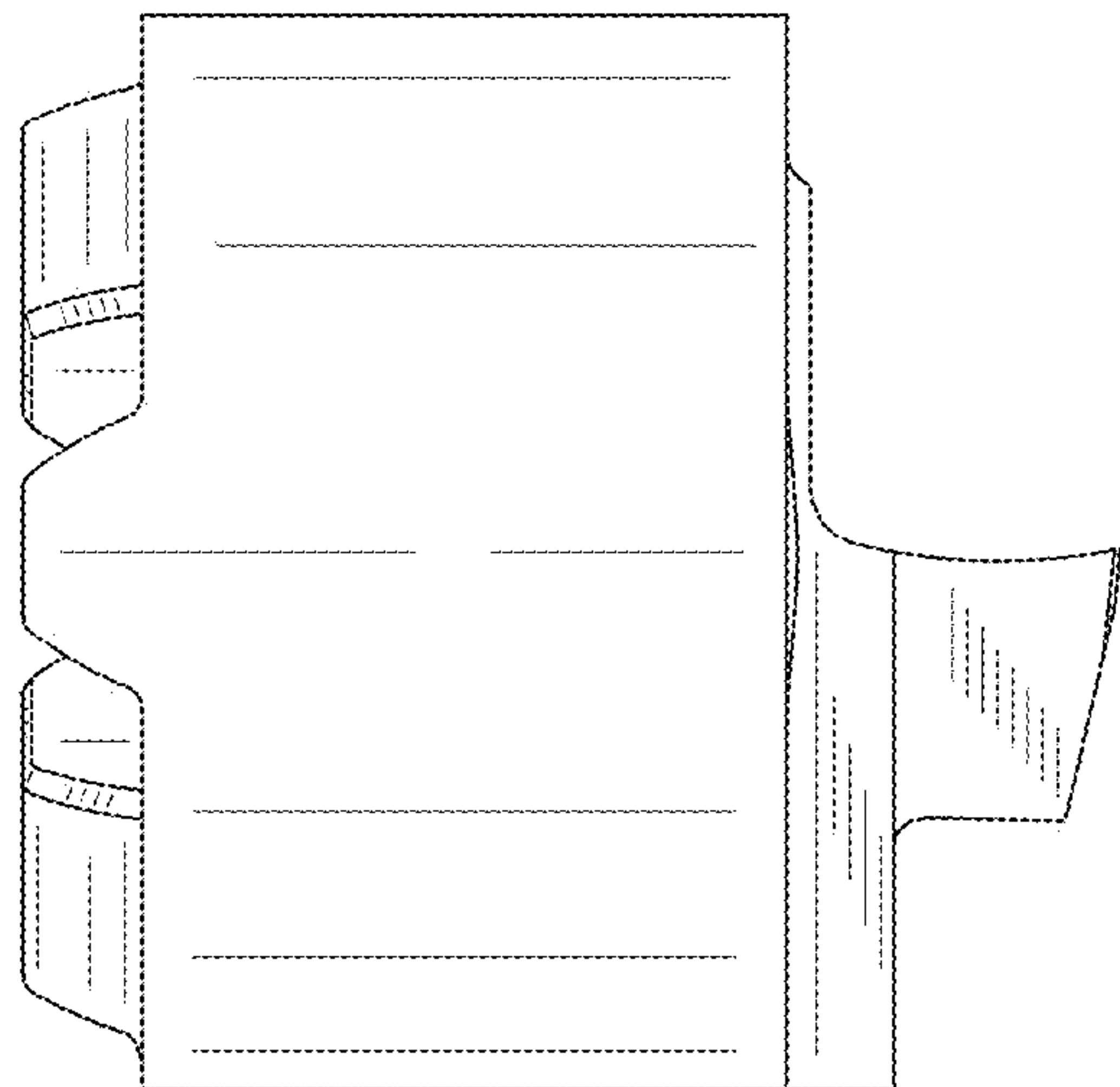


FIG. 14

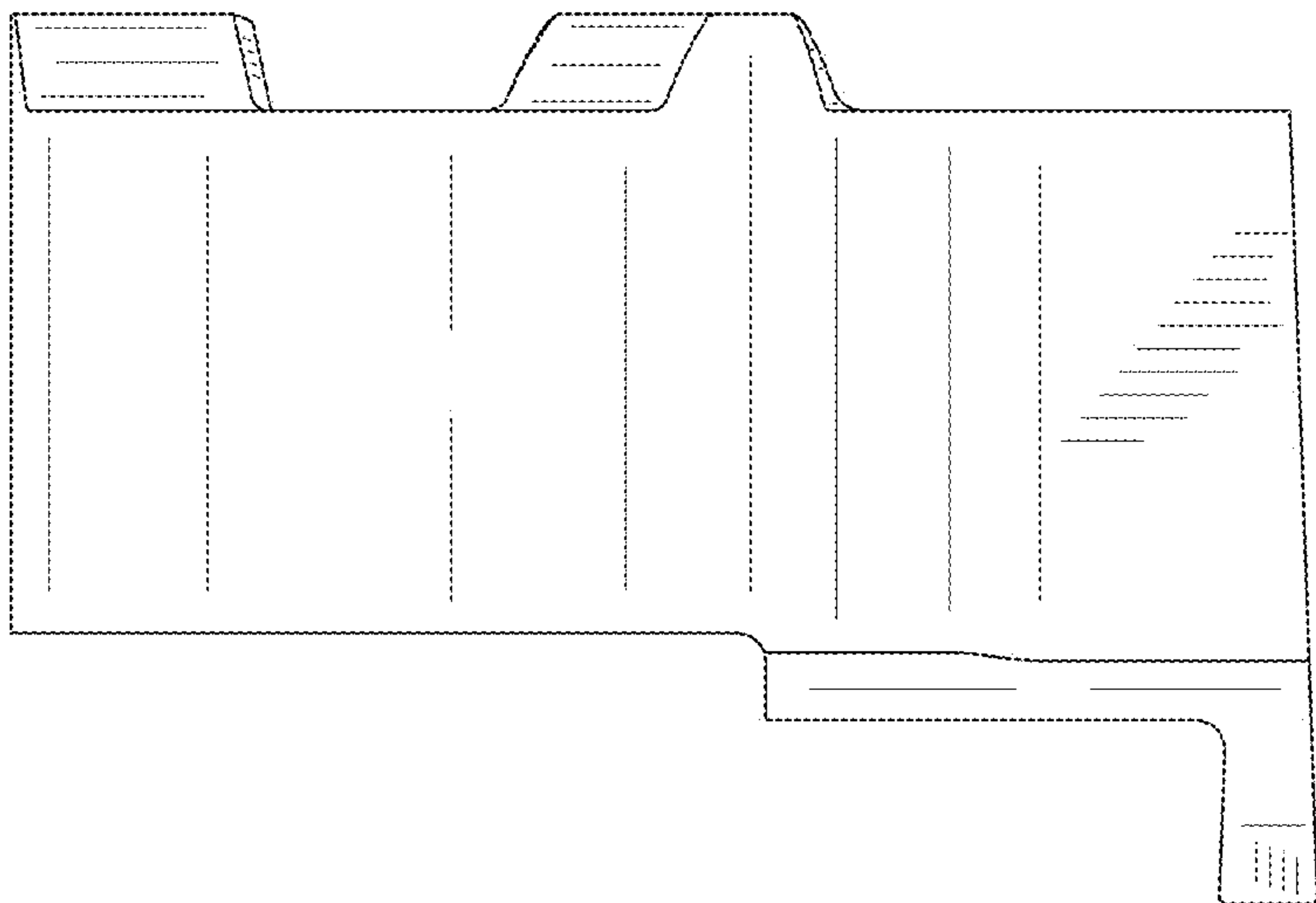


FIG. 15

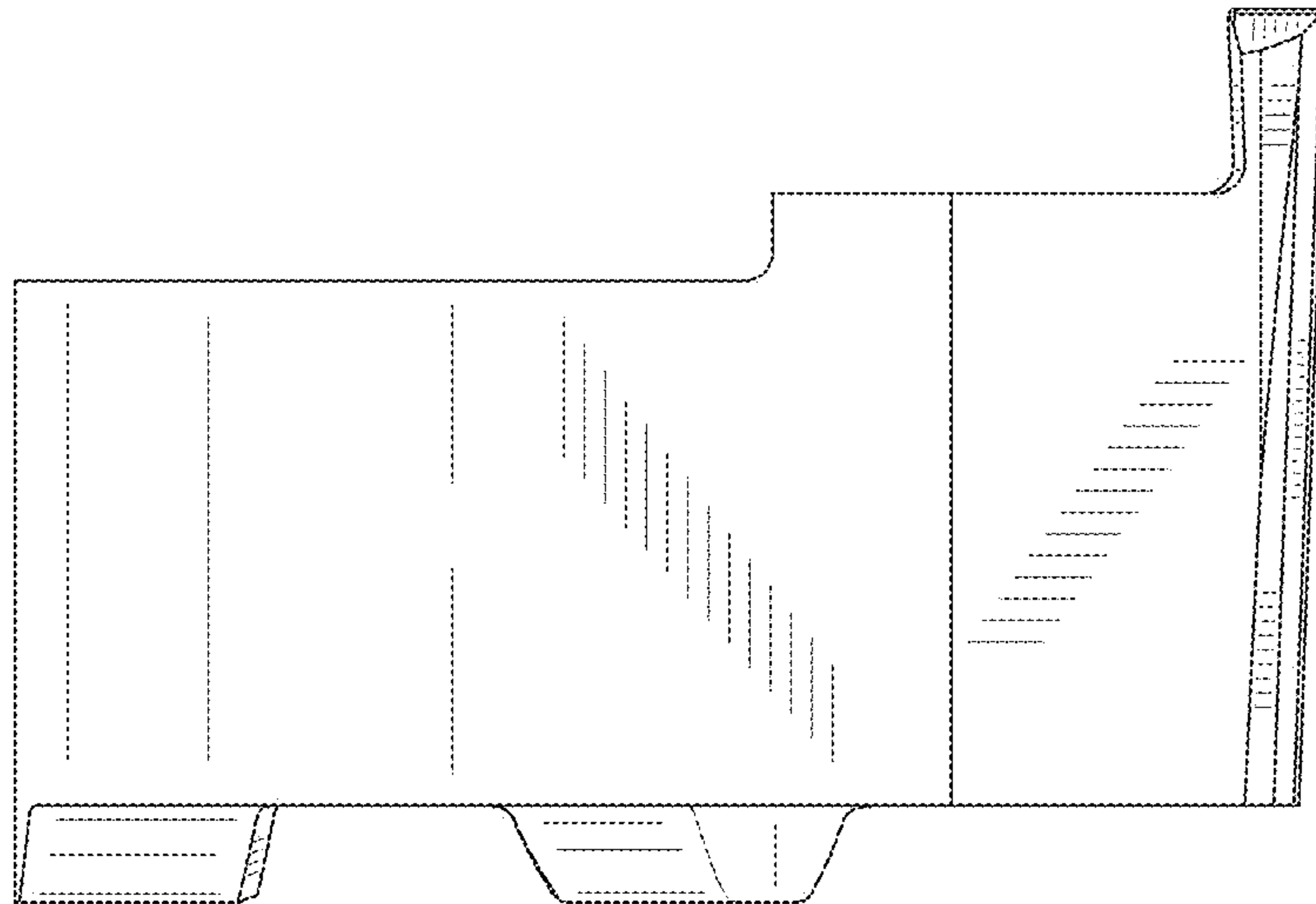


FIG. 16

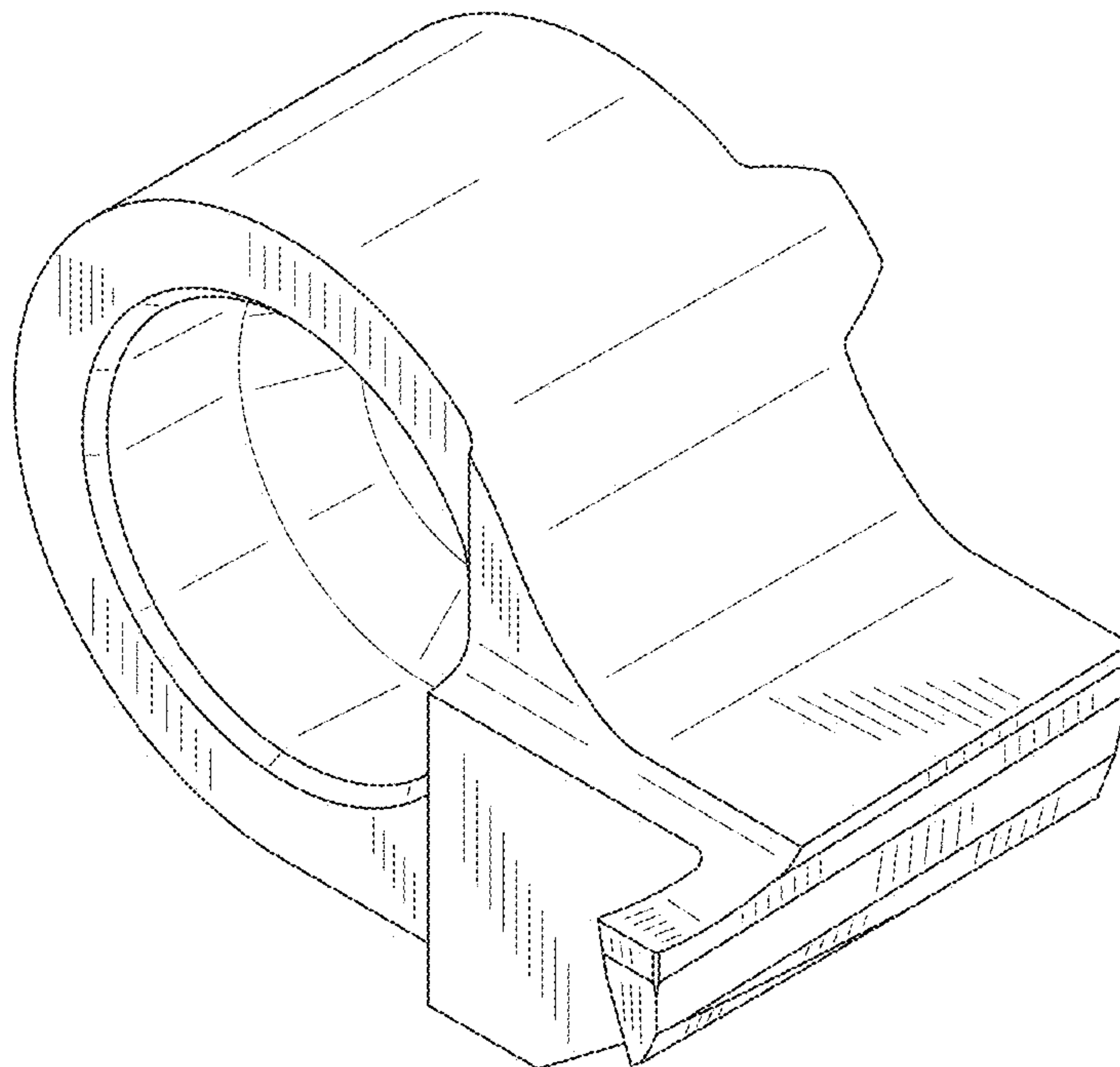


FIG. 17

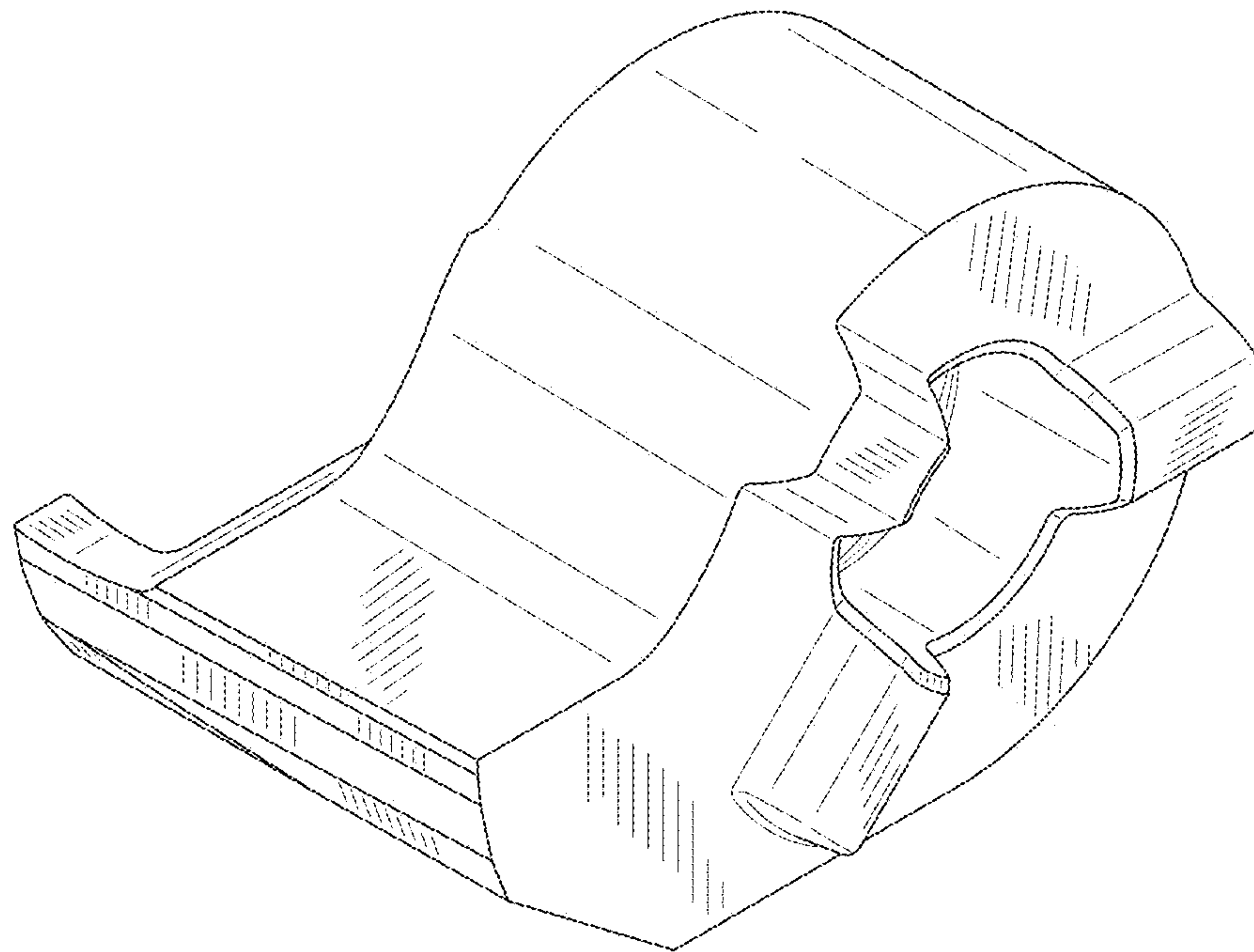


FIG. 18

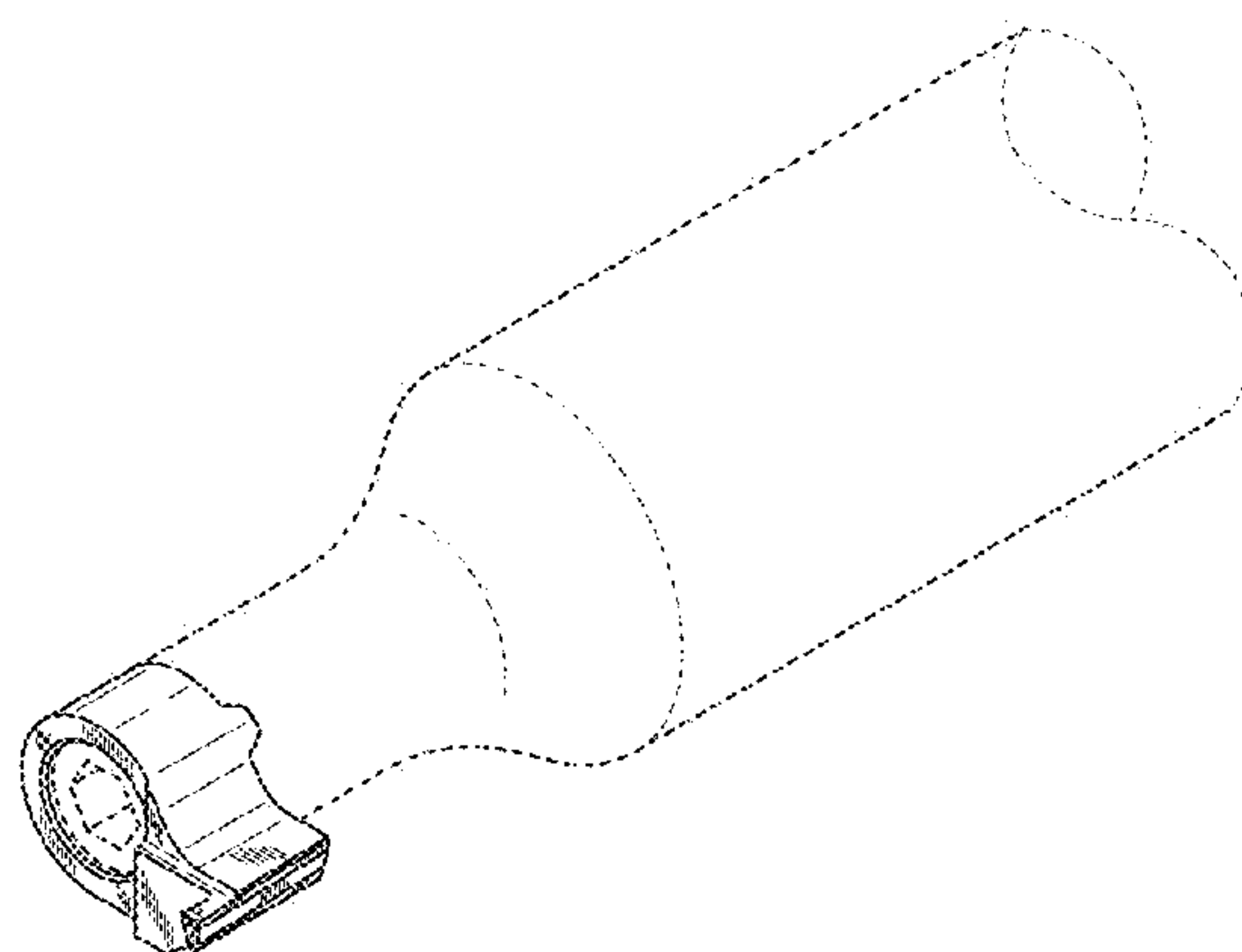


FIG. 19

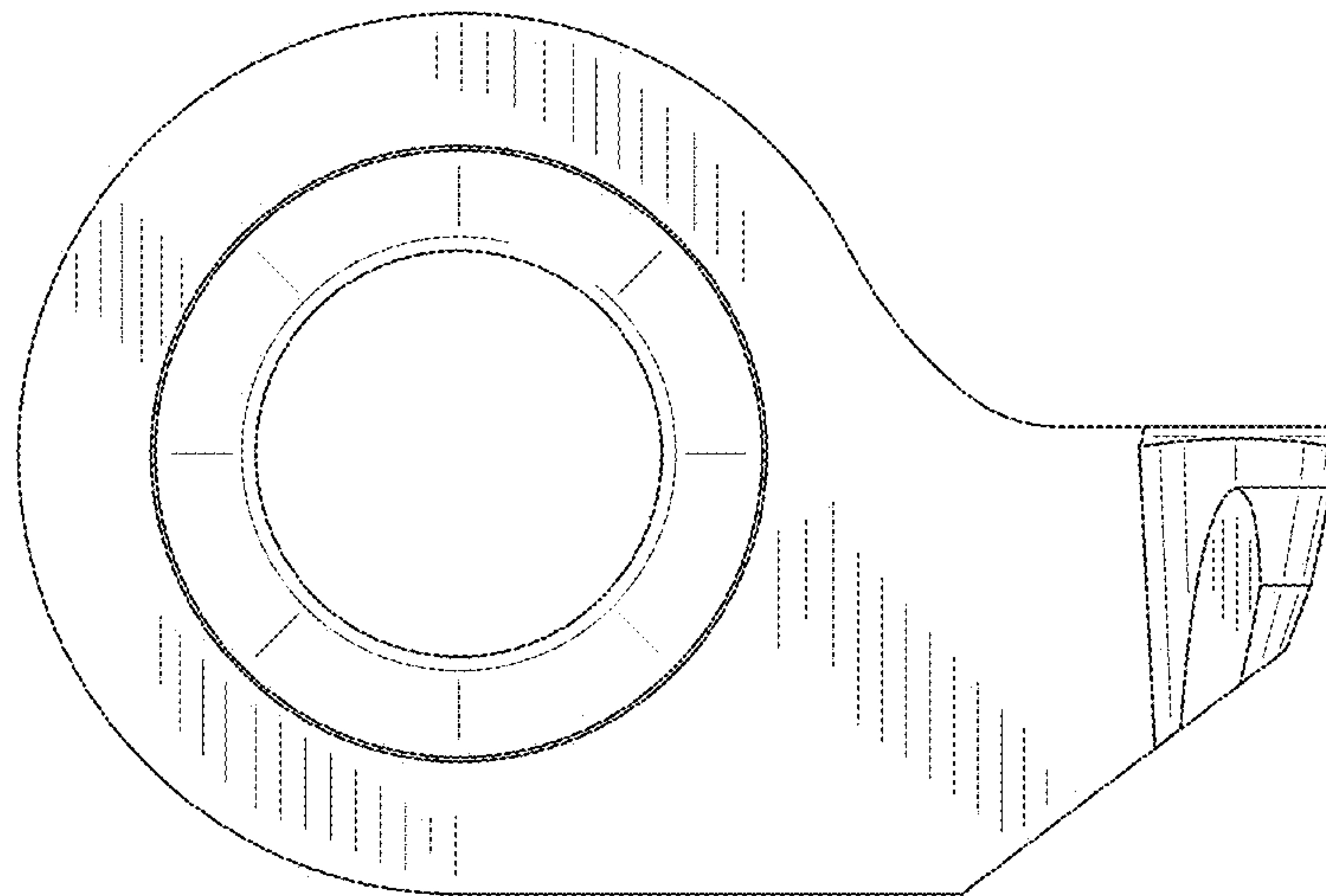


FIG. 20

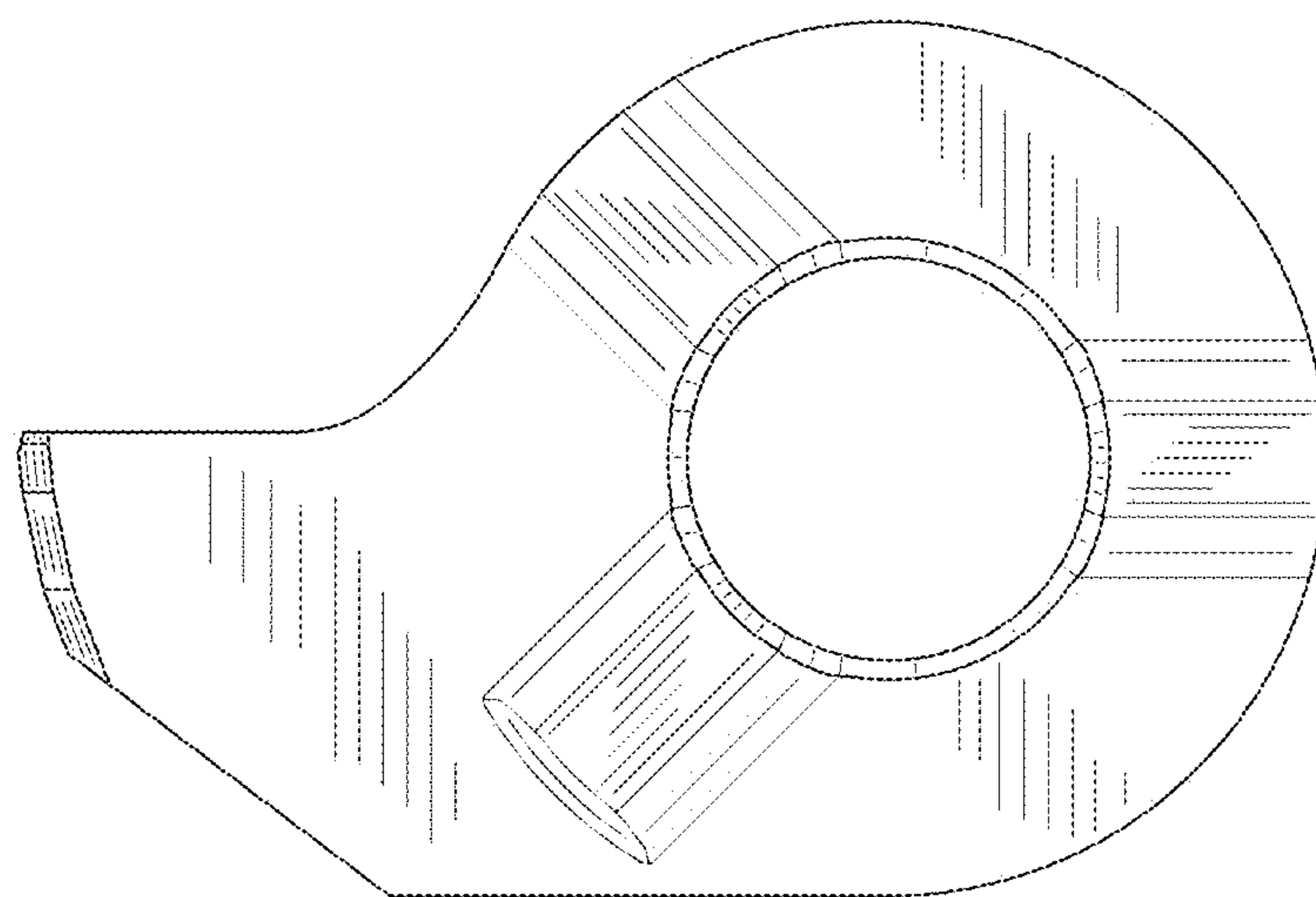


FIG. 21

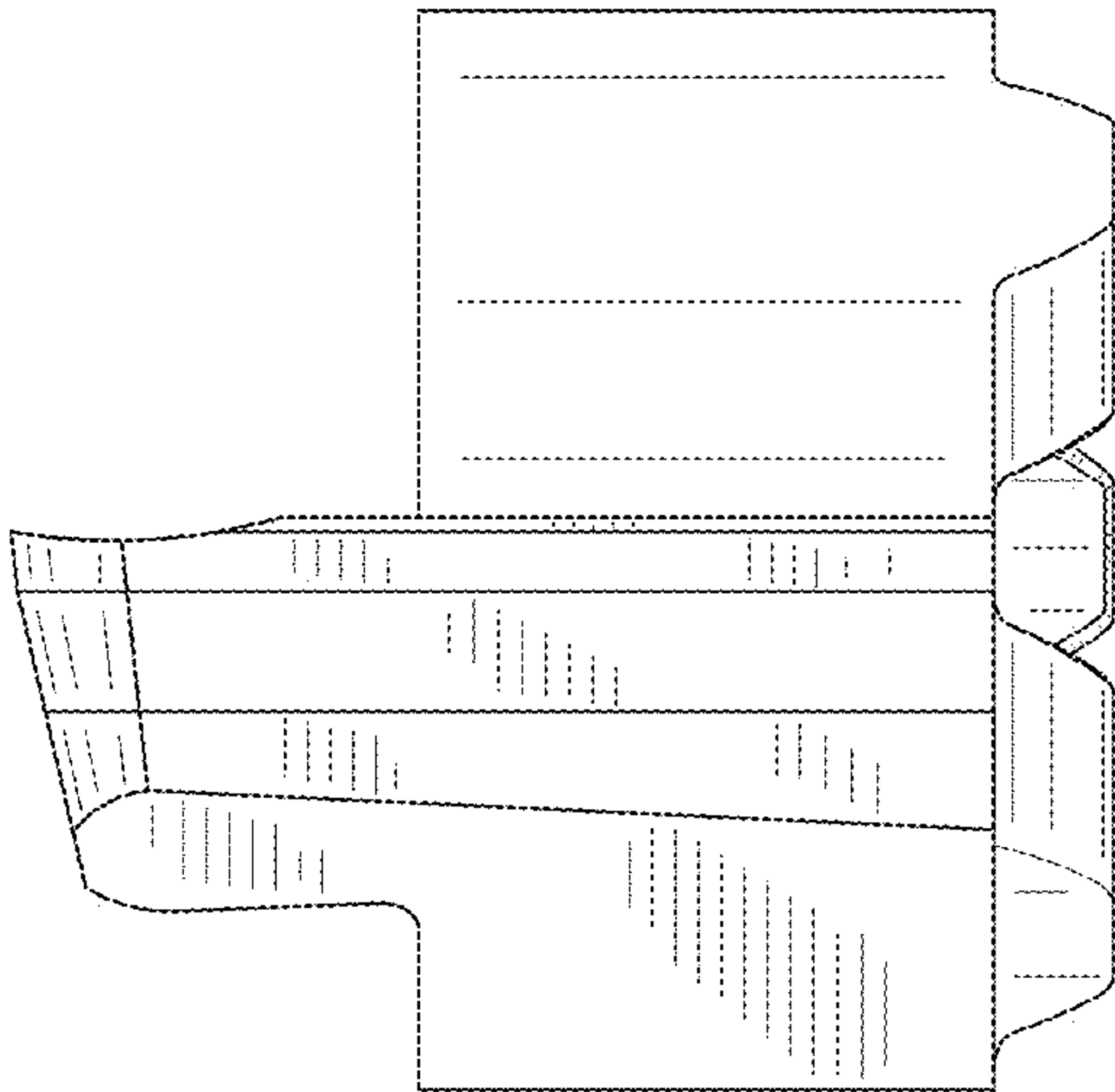


FIG. 22

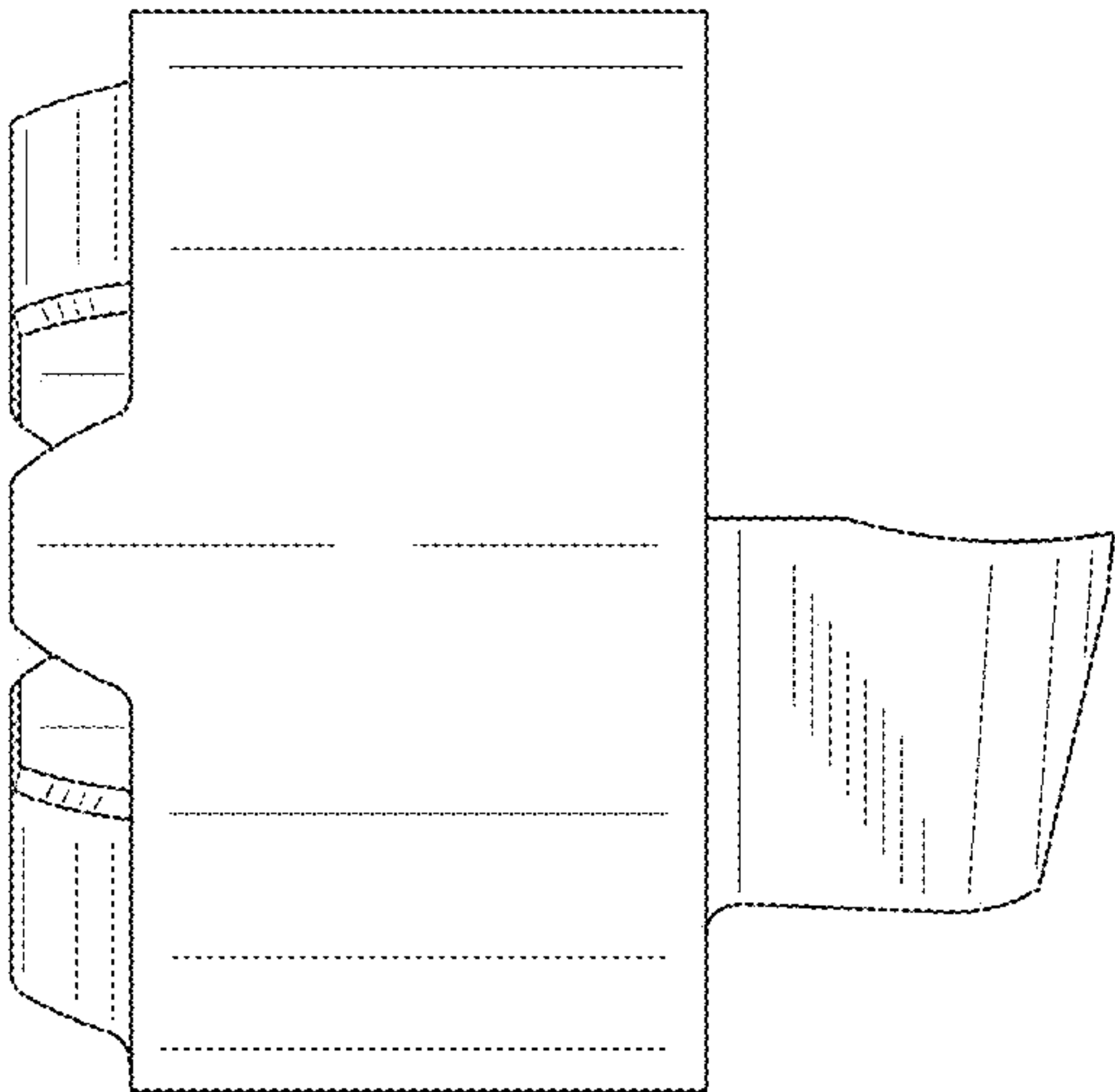


FIG. 23

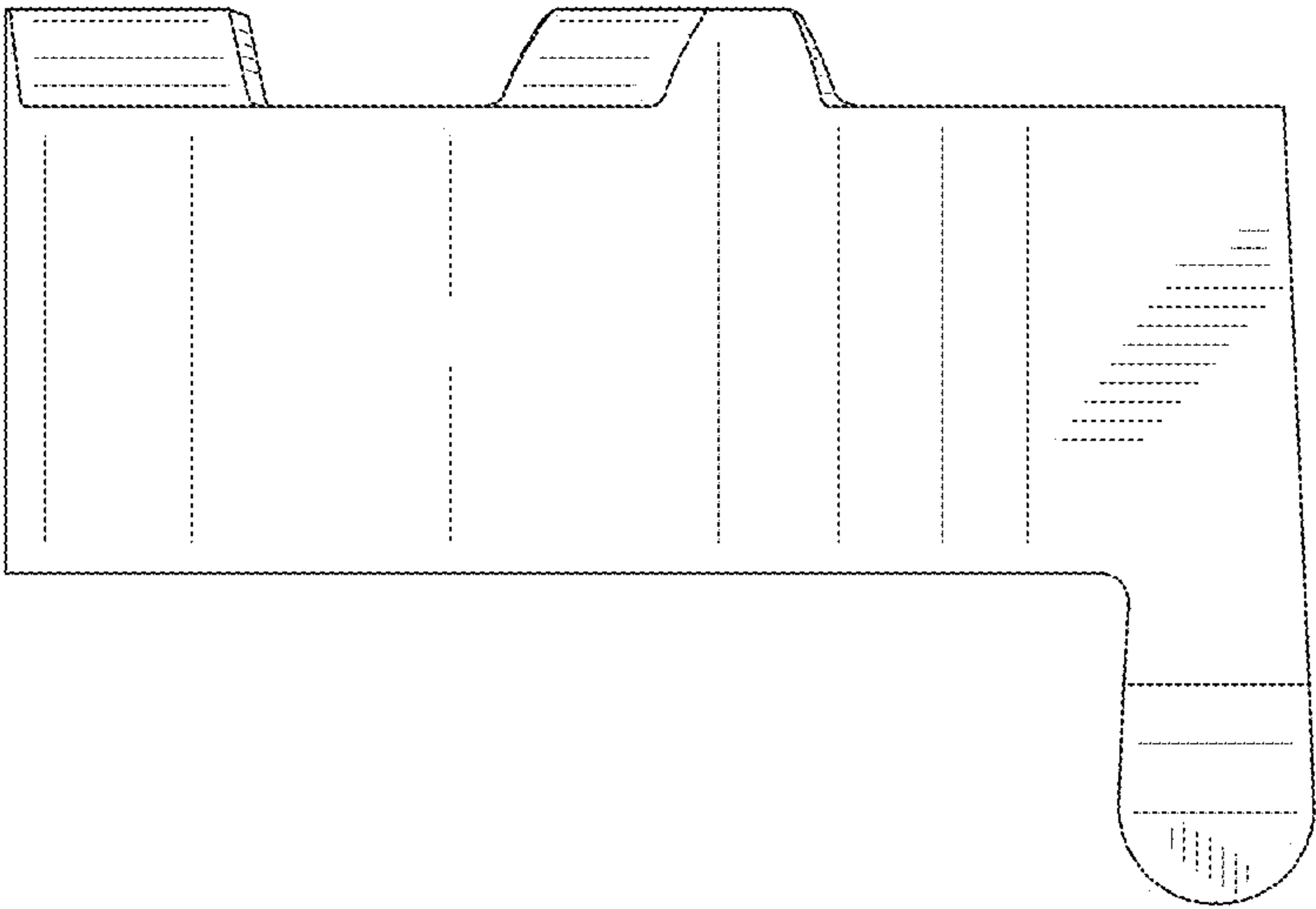


FIG. 24

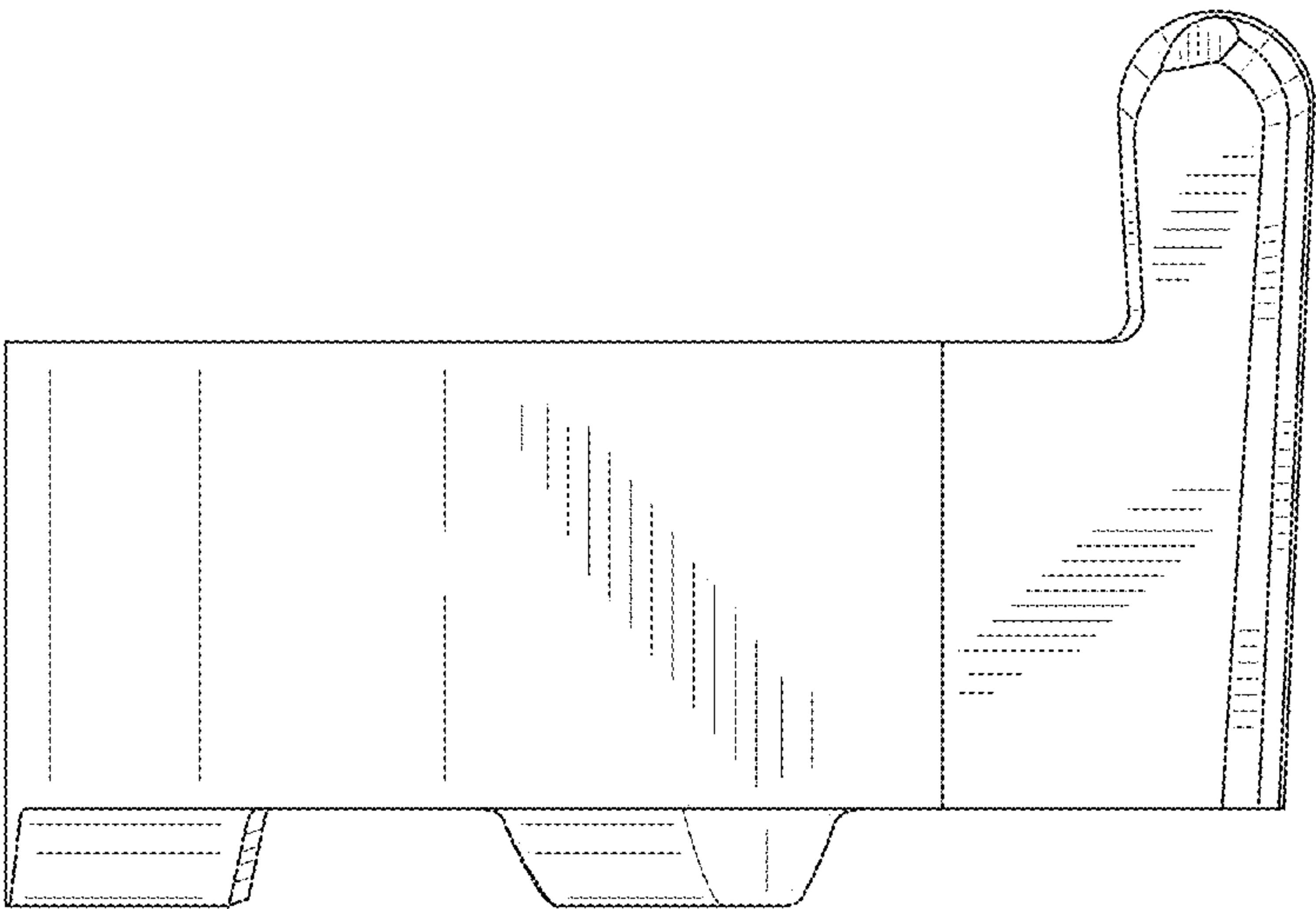


FIG. 25

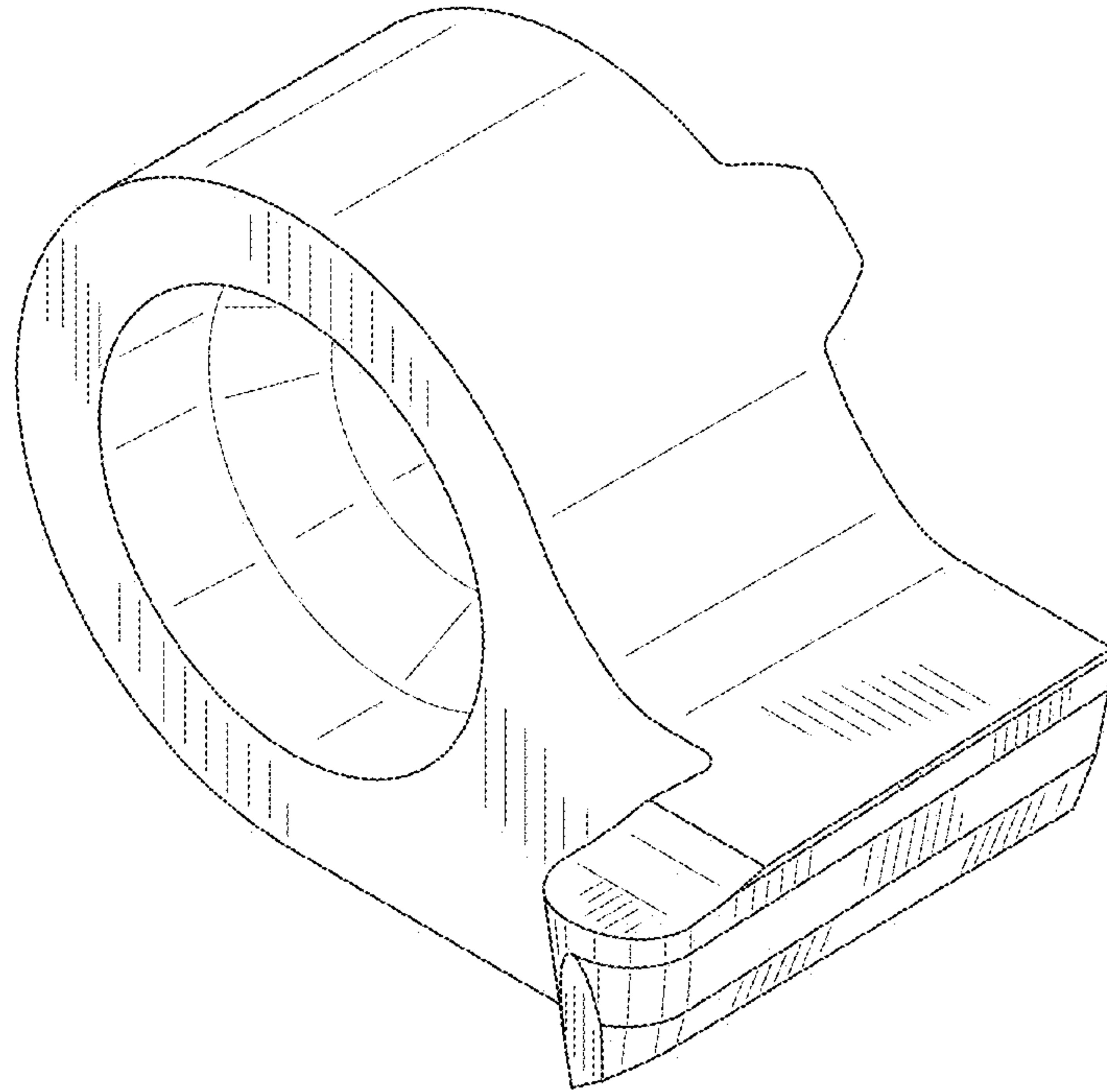


FIG. 26

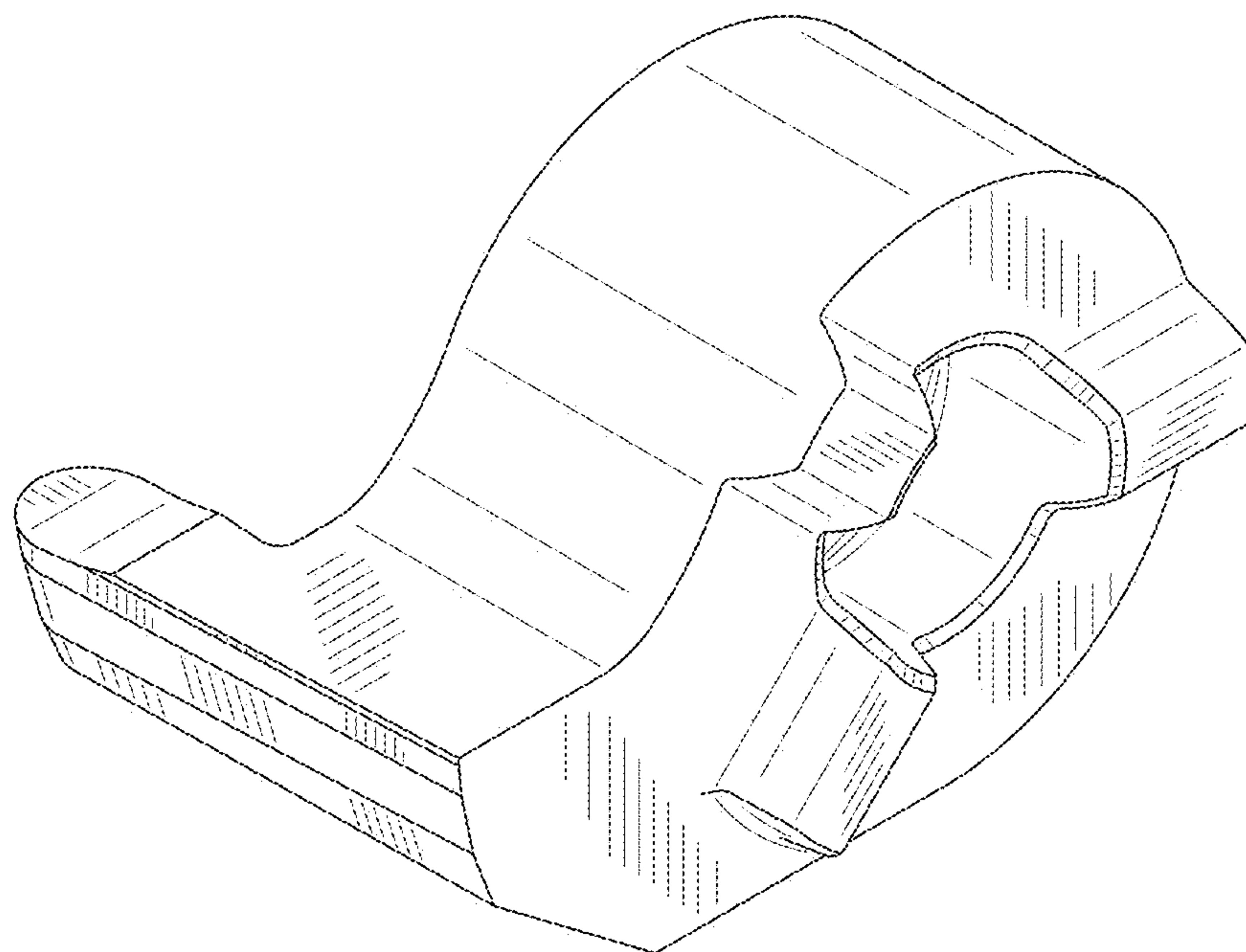


FIG. 27

